

Forum Guide to Elementary/Secondary Virtual Education Data

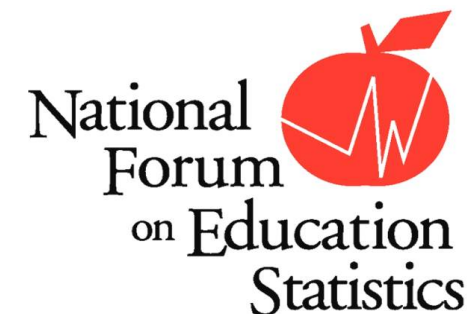
Dean Folkers, Nebraska Department of Education

Allen Miedema, Northshore School District (WA)

Jay Pennington, Iowa Department of Education

Adrian L. Peoples, Delaware Department of Education

Dawn Gessel, Putnam County Schools (WV)



Presentation Outline

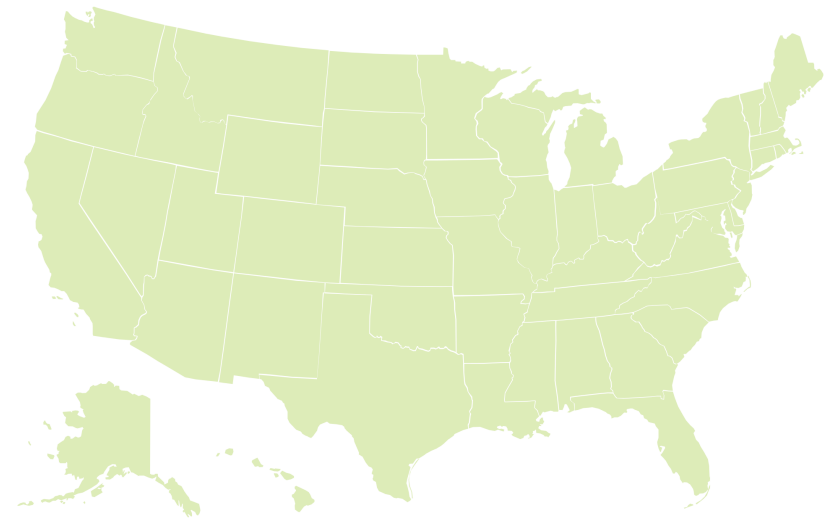
- National Forum on Education Statistics
- Forum Guide to Elementary/Secondary Virtual Education Data
- Practitioner Perspectives on Virtual Education
- Q&A

National Forum on Education Statistics

Mission: To plan, recommend, and develop education data resources that support local, state, and national efforts to improve public and private education throughout the United States.

Members:

- Representatives of offices of the U.S. Department of Education and other federal agencies
- Representatives of state and local education agencies (SEAs and LEAs)
- Associate members from U.S. territories, Regional Educational Laboratories (RELs), and national education associations



Forum Resources

Forum resources are available online:

<http://nces.ed.gov/forum/>

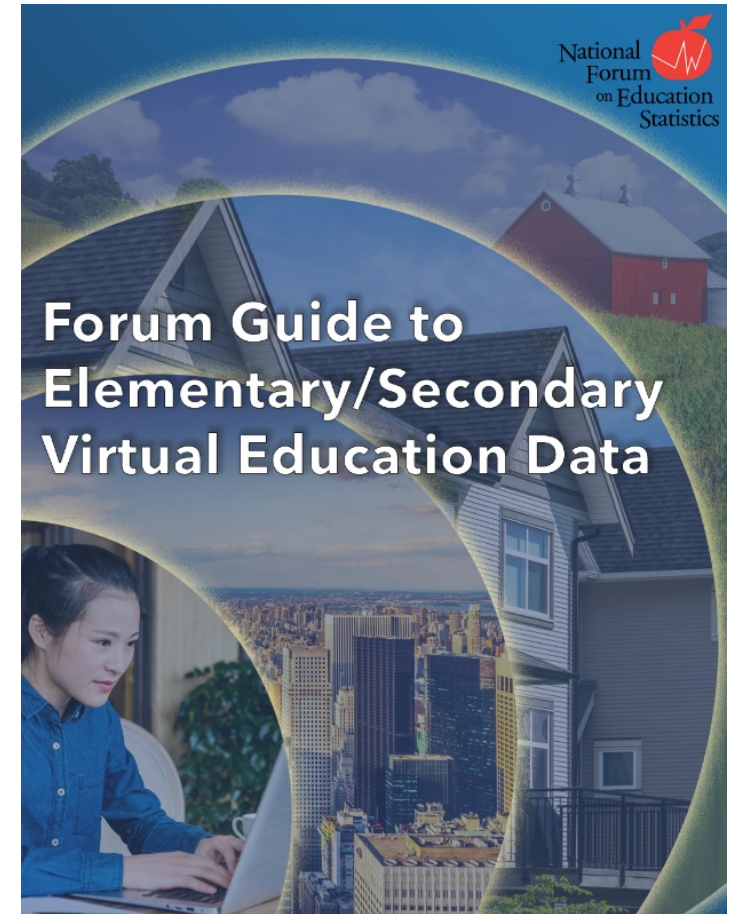
- Best-practice publications
- Online courses
- Videos
- Newsletters
- Outreach materials



Forum Virtual Education Working Group

Purpose of the working group

- Review the 2006 Forum publication
- Identify virtual education data collection challenges
- Explore data needs
- Develop a resource that offers best practices for building, modifying, and updating data systems to incorporate virtual education data



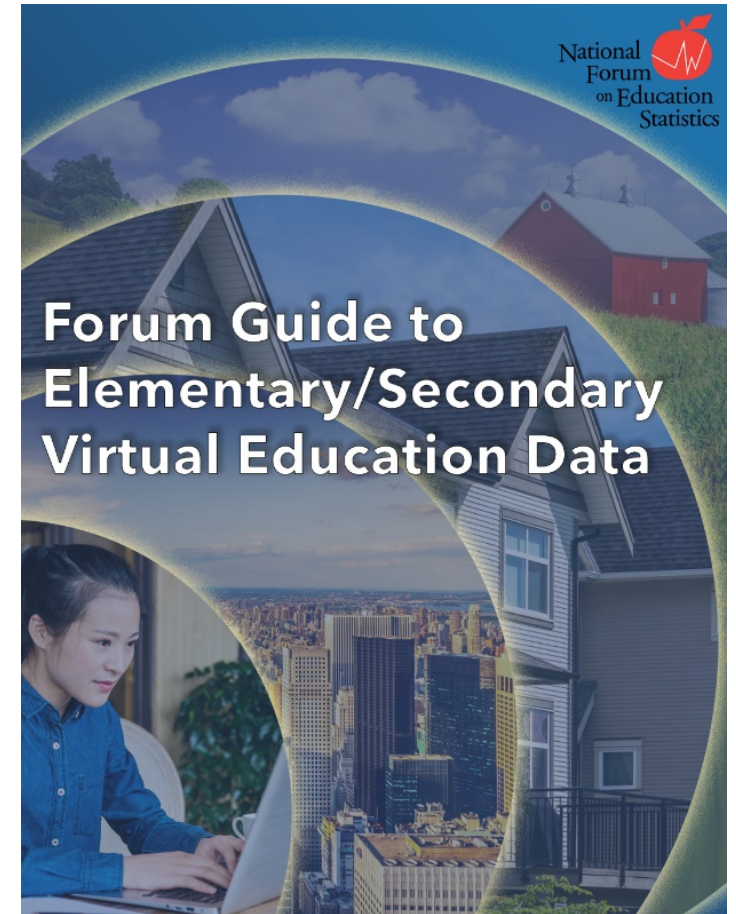
Forum Guide to Elementary/Secondary Virtual Education Data

Chapters

1. Virtual Education
2. Virtual Education Data
3. Virtual Education Data Use Policy Questions and Common Practices

Appendices

- A. Examples of SEA and LEA Policies
- B. SEA Virtual and Distance Learning Websites
- C. Suggested Elements for Virtual Education Data System

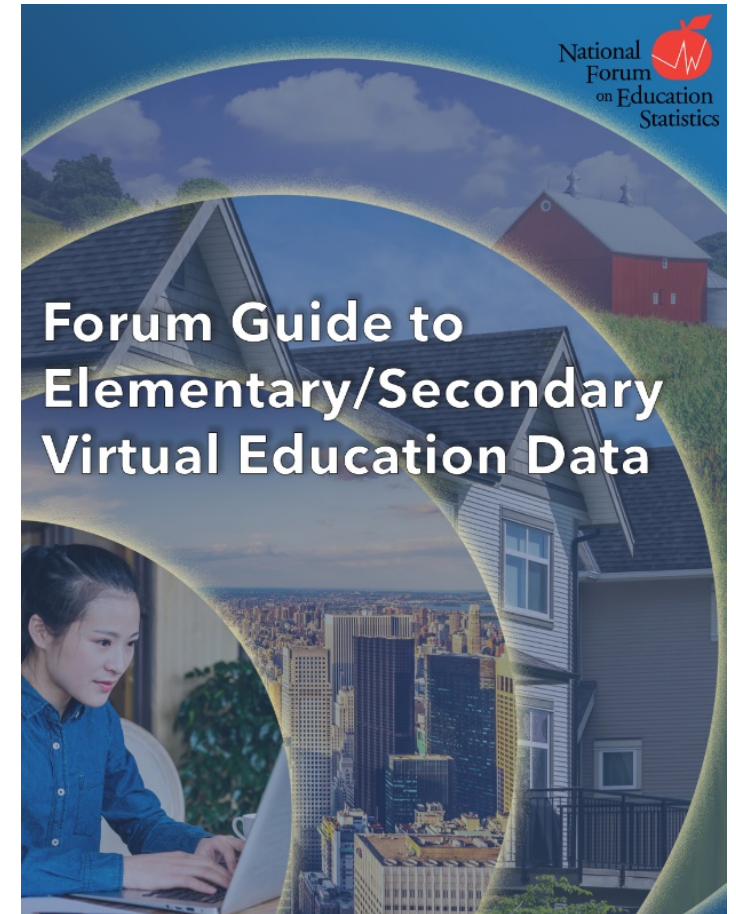


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Purpose of the document

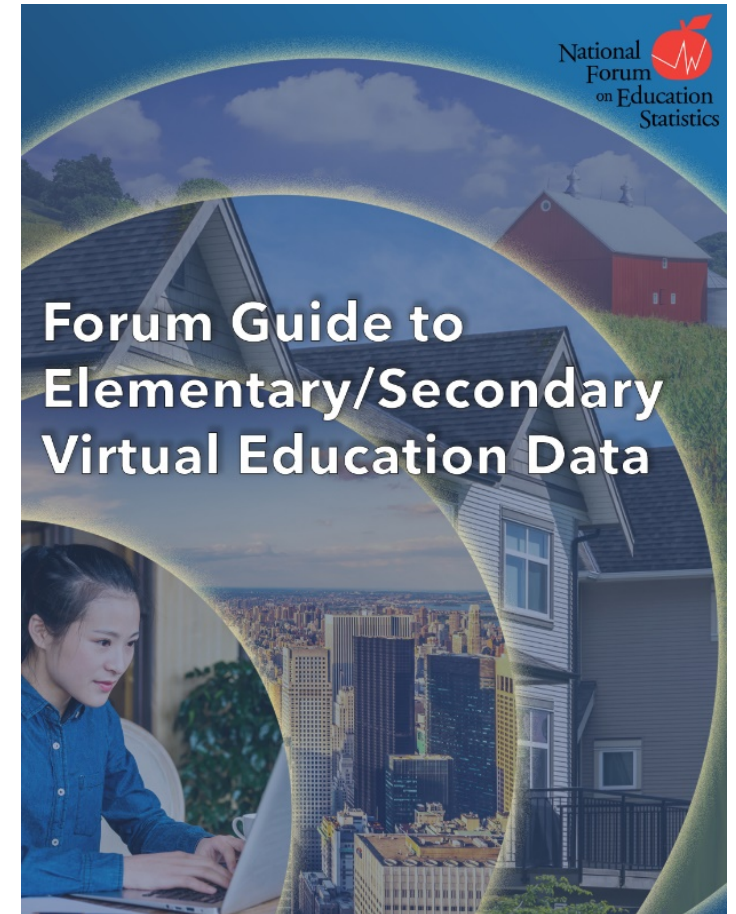
To assist SEAs and LEAs as they

- consider the impact of virtual education on established data elements and methods of data collection; and
- address the scope of changes, the rapid pace of new technology development, and the proliferation of resources in virtual education.



Chapter 1: Virtual Education

- Examines the role of virtual education
- Reviews commonly used terms
- Discusses the importance of high-quality data
- Identifies challenges and opportunities
- Suggests methods for modifying traditional data definitions



What is Virtual Education?

There is no clear, uniform definition of “virtual education.” It may include:

- Remote education
- Distance learning
- Online learning
- Distributed learning
- Home-based virtual instruction
- Open learning
- Networked learning
- Online learning
- Cyber education
- Blended learning
- Digital learning
- Computer-based learning
- Web-based education

Virtual Education Definition

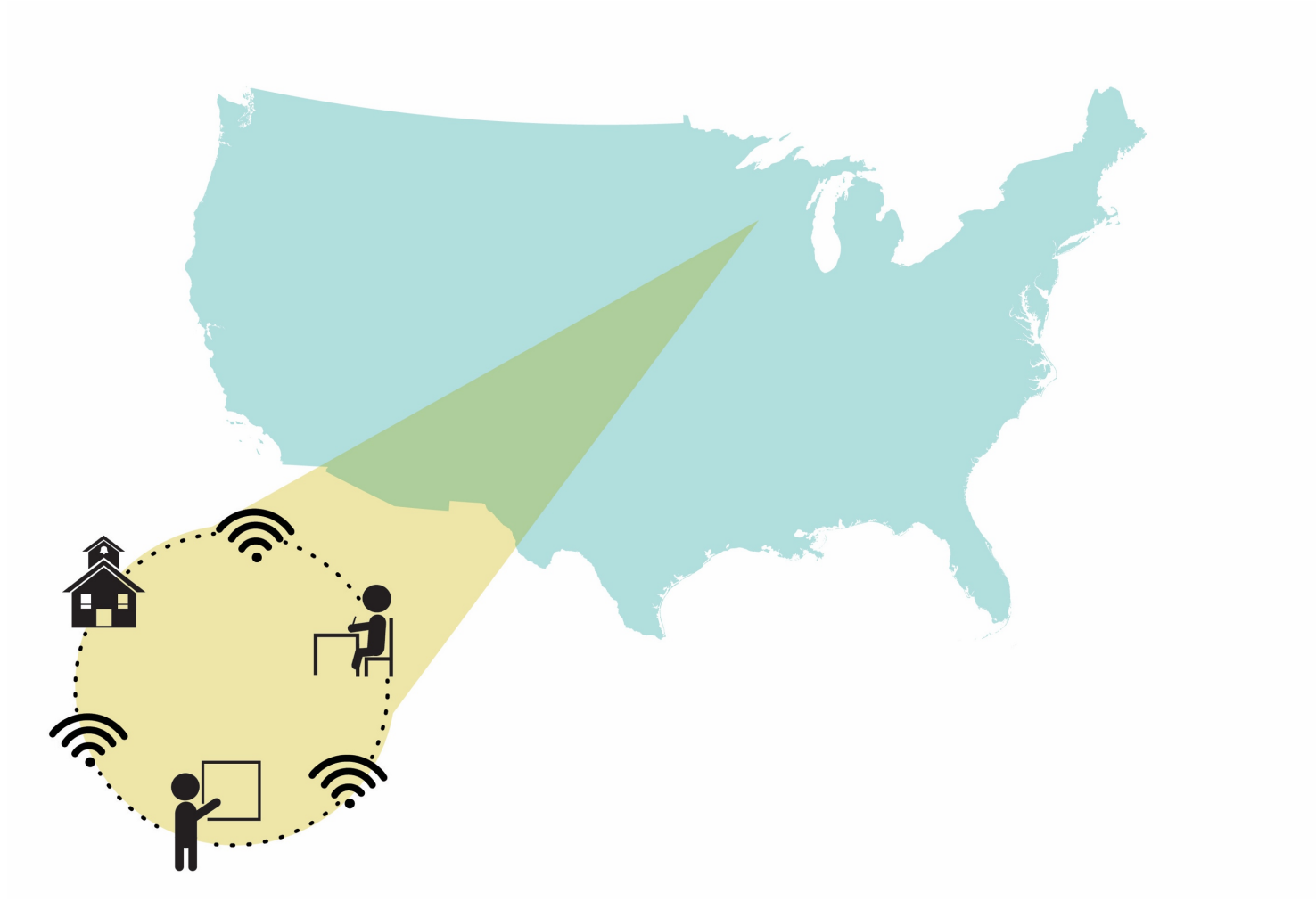
For our purposes, “virtual education” is defined as:

instruction during which students and teachers are separated by time and/or location and interact via internet-connected computers or other electronic devices.

Developments in Education Technology and Virtual Education

- There is widespread use of education technology within many physical classroom settings.
- Online resources and access to technology devices have enabled the expansion of virtual education.
- Virtual education ranges from partially online coursework to 100% virtual programs and schools.
- Many schools are currently transitioning to virtual education to ensure learning continuity during extended school closures.

Organizational Structure of Virtual Education



Key Concepts and Terms

Pacing: The rate of advancement or progress through academic content.

- Synchronous Pacing
- Asynchronous Pacing
- Combined Synchronous/Asynchronous Pacing

Instructional techniques: Approaches to teaching and learning.

- Individualization
- Differentiation
- Personalization

Virtual Education Data

Existing data systems that are capable of providing high-quality data for accountability and decisionmaking *may not be able to accommodate virtual education data systems* that are not aligned along traditional administrative, instructional, and policymaking channels.

Challenges to Collecting High-Quality Virtual Education Data

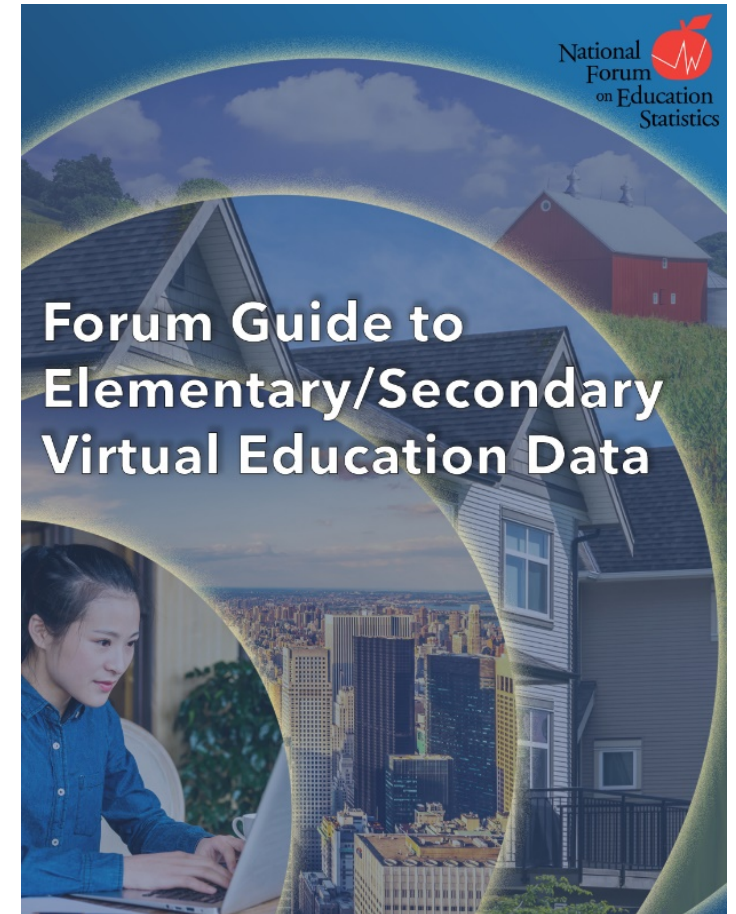
- Variation among SEAs and LEAs
- Data management and governance challenges
- Variations in data collection timelines
- Tracking student progress and pace
- Flexibility in grade levels and school assignments
- Capturing relevant virtual education data
- Distinguishing instructional time from homework
- Traditional concepts of course duration or structure
- Lack of high-quality data for evaluation
- Established structures/cultures
- Integrating virtual education data and other data systems

Opportunities Available Through Virtual Education Data

- Easier implementation of tailored education
- Increased ability to award credit for subject mastery
- More precise information and new data on student learning
- Real-time feedback

Chapter 2: Virtual Education Data

- Identifies three categories of data elements commonly used in virtual education data systems:
 - K-12 virtual and blended data elements
 - Organizational responsibility data elements
 - Data elements applicable to both traditional and virtual education credit and achievement



K-12 Virtual and Blended Data Elements

Common elements that identify K-12 virtual and blended data include the following:

- Virtual Indicator
- Course Interaction Mode
- Blended Learning Model Type
- Course Section Instructional Delivery Mode

Organizational Responsibility Data Elements

Data elements that help to clarify organizational responsibilities include the following:

- Responsible Organization Identifier
- Responsible Organization Type
- Responsible Organization Name
- Responsible District Identifier
- Responsible District Type
- Responsible School Identifier
- Responsible School Type

Traditional and Virtual Course Credit and Achievement Data Elements

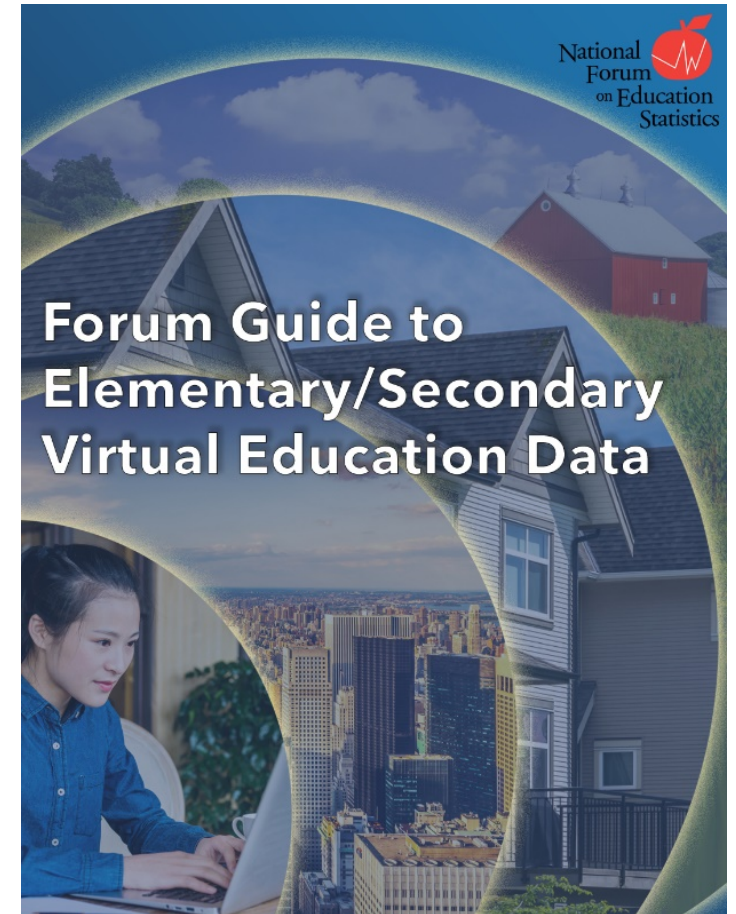
Data elements that help to accurately track both traditional and virtual education methods include the following:

- Course Credit Units
- Achievement Criteria
- Competency Set Completion Criteria
- Competency Set Completion Criteria Threshold
- Course Section Time Required for Completion

Chapter 3: Virtual Education Data Use Policy Questions and Common Practices

Provides

- a list of topic areas for consideration;
- real world examples;
- policy questions;
- common best practices; and
- links to data elements.



Topic Areas: Part I

School

1. School Identification/Classification
2. School Governance
3. School Accreditation
4. School Contact Information
5. School Location
6. School Enrollment
7. School Calendar

Curriculum and Learning Environment

8. Course Information
9. Course Section Information
10. Unit Information, Learner Activities, and Resources
11. Content Governance and Accountability
12. Reporting Information
13. Safety and Discipline

Topic Areas: Part II

Students

- 14. Student Information
- 15. Student Enrollment/Exit Information
- 16. Student Attendance Information
- 17. Student Participation/Performance Information
- 18. Student Progress Information
- 19. Student Disability Information

Staff

- 20. Staff Member Information
- 21. Staff Member Employment Status
- 22. Staff Member Employment Credentials
- 23. Staff Member Assignment Information
- 24. Staff Member Attendance Information

Topic Area 8: Course Information

Example: A student took English I in 9th grade at a virtual school... Unfortunately, the virtual school curriculum was not aligned to state standards.

Policy Questions:

- Does your curriculum framework or standard apply to virtual coursework?
- Do your organization's required content assessments apply to virtual coursework?
- Can students acquire exceptions to curriculum framework and assessment requirements (e.g., for transferred coursework)?
- Can you map transferred course information, including credits, to your organization's course classification system?

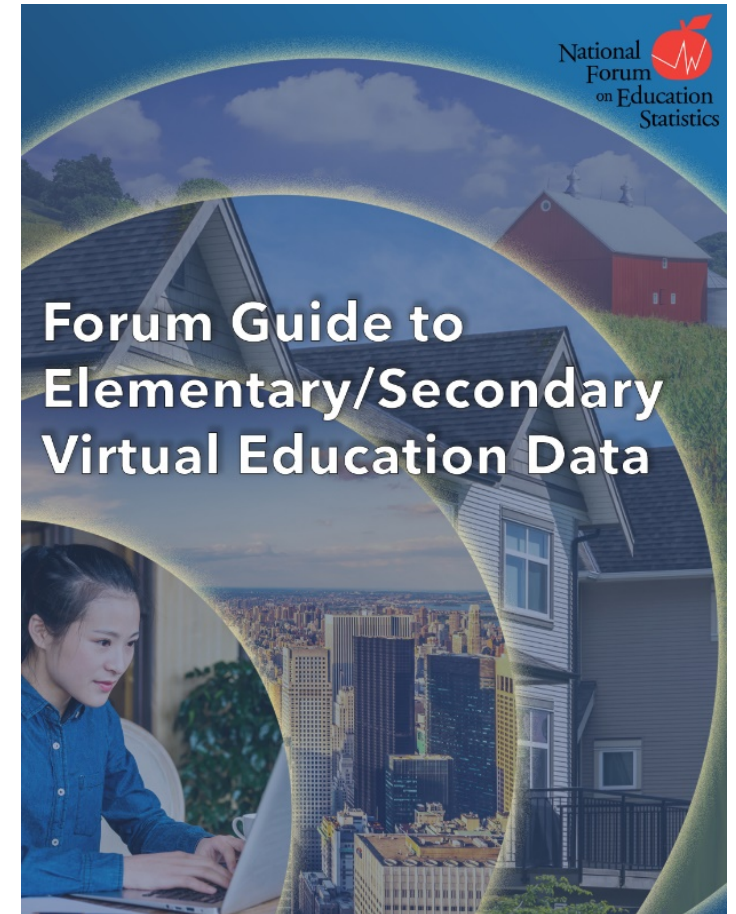
Topic Area 8: Course Information

Common Practices:

- Course codes and coding systems need to be coordinated between institutions for transfer credit data to be meaningful.
- Organizations must be aware of differences in terminology and the effects on data when transferring information between organizations.
- School Courses for the Exchange of Data (SCED) is a voluntary, common classification system for prior-to-secondary and secondary school courses.

Appendices

- Examples of SEA and LEA Policies
- SEA Virtual and Distance Learning Websites
- Suggested Elements for Virtual Education Data System



Practitioner Perspectives

Allen Miedema, Northshore School
District (WA)

Practitioner Perspectives

Jay Pennington, Iowa Department of
Education

March – April School
Closures

Continuous Learning
Options

- Voluntary
- Required
- Combination

Practitioner Perspectives

Adrian L. Peoples, Delaware
Department of Education

LEAs given two weeks to develop remote learning plans.

Key decision points affecting plan:

- One-to-one device access
- Internet access (rural areas)
- Synchronous vs. asynchronous instruction delivery
- Synchronous vs. asynchronous office hours

Practitioner Perspectives

Dawn Gessel, Putnam County Schools
(WV)

Practitioner Perspectives

Dean Folkers, Nebraska Department
of Education

Information and Resources

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Virtual Education Data*

https://nces.ed.gov/forum/pub_2016095.asp

For more information about the Forum,
please visit

<https://nces.ed.gov/forum/index.asp>

For more questions about Forum
publications and resources, contact
Ghedam Bairu at ghedam.bairu@ed.gov.

